

10/31/08

2006

Docket No.: 0171-1271PUS1  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Takuji YOSHIMOTO et al.

Application No.: NEW

Confirmation No.: N/A

Filed: April 27, 2006

Art Unit: N/A

For: CHARGE-TRANSPORTING ORGANIC  
MATERIAL CONTAINING COMPOUND  
HAVING 1, 4-DITHIIN RING

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

A summary/abstract translation of some of the non-English language references is enclosed. US Patent No. 4,319,033-A corresponds to JP 57-140782-A.

Non Patent Literature references by VAN SLYKE et al., GUSTAFSSON et al., YANO et al., BHARATHAN et al., WAKIMOTO et al., HUNG et al., GANZORIG et al., PARHAM et

al., NAKAYAMA et al. (1984), and NAKAYAMA et al. (1987) are discussed on pages 3-4 of the present specification. Japanese Patent Publication 2002-151272-A also is discussed on page 4 of the present specification.

Applicant has not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark Office has waived this requirement for all U.S. patent applications. Applicant submits herewith copies of foreign and non-patents in accordance with 37 CFR 1.98(a)(2).

A concise explanation of relevance of some of the items listed on form PTO/SB/08 is in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

10/15/77438

Application No.: NEW

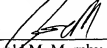
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If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies to charge payment or credit any overpayment to our Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Dated: April 27, 2006

Respectfully Submitted,

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APPROVED FOR PUBLICATION BY APR 2006

PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	NEW 107277-038
		Filing Date	April 27, 2006
		First Named Inventor	Takuji YOSHIMOTO
		Art Unit	N/A
		Examiner Name	Not Yet Assigned
Sheet	1	of	2
		Attorney Docket Number	0171-1271PUS1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA*	US-4,319,033-A	03-09-1982	TSAI et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>4</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	BA	JP-56-049304-A	05-02-1981			ABS
	BB	JP-57-140782-A	08-31-1982			
	BC	JP-2002-151272-A	05-24-2002			ABS
	BD	JP-61-152677-A	07-11-1986			ABS

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with a single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IPW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP §601.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.15 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
	CA	JUZO NAKAYAMA et al., Preparation of $\alpha$ -Quinine and $\alpha$ -Septithiophenes and Their Positional Isomers, Heterocycles, 1987, 939-943, 26-4.			
	CB	S. A. VAN SLYKE, Organic electroluminescent devices with improved stability, Applied Physics Letters, 10-7-1996, 2160-2162, 69-15, US.			
	CC	G. GUSTAFSSON et al., Flexible light-emitting diodes made from soluble conducting polymers, Nature, 6-11-1992, 477-479, 357, UK.			
	CD	Y. YANG et al., Polyaniline as a transparent electrode for polymer light-emitting diodes: Lower operating voltage and higher efficiency, Applied Physics Letters, 3-7-1994, 1245-1247, 64-10, US.			
	CE	JAYESH BHARATHAN et al., Polymer electroluminescent devices processed by inkjet printing: I. Polymer light-emitting logo, Applied Physics Letters, 5-25-1998, 2660-2662, 72-21, US.			
	CF	TAKEO WAKIMOTO et al., Organic EL Cells Using Alkaline Metal Compounds as Electron Injection Materials, IEEE Transactions on Electron Devices, August 1997, 1245-1248, 44-8, US.			
	CG	L.S. HUNG et al., Enhanced electron injection in organic electroluminescence devices using an Al/LiF electrode, Applied Physics Letters, 1-13-1997, 152-154, 70-2, US.			
	CH	CHIMED GANZORIG et al., A Lithium Carboxylate Ultrathin Film on an Aluminum Cathode for Enhanced Electron Injection in Organic Electroluminescent Devices, Japanese Journal of Applied Physics, 11-15-1999, 1348-1350, 38-11.			

Examiner Signature	Takuji Yoshimoto	Date Considered	11/07/2008
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1AP20 Rec'd 15 OCT 27 APR 2006

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Substitute for form 1449A/B/PTO				<b>Complete if Known</b> <b>438</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				Application Number	NEW 01/277438
				Filing Date	April 27, 2006
				First Named Inventor	Takuji YOSHIMOTO
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	0171-1271PUS1
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CI	WILLIAM E. PARHAM et al., Heterocyclic Vinyl Ethers, Journal of the American Chemical Society, 4-5-1953, 1647-1651, 75.	
CJ	JUZO NAKAYAMA et al., General Synthesis of 1,4-Dithiins from Diketo Sulfides, Heterocycles, 1984, 1527-1530, 22-7.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Taofiq Solola/	Date Considered	11/07/2008
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